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L3 and fresh\$

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10

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## Search History

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side by side

*DB=USPT; PLUR=YES; OP=ADJ*L4 L3 and fresh\$L3 6035304.pn.L2 (display with freshness with information\$)L1 (display\$ and fresh\$ and information\$).ab.Hit Count Set Name

result set

1 L41 L36 L211 L1

END OF SEARCH HISTORY

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**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: US 6035304 A

L4: Entry 1 of 1

File: USPT

Mar 7, 2000

DOCUMENT-IDENTIFIER: US 6035304 A

TITLE: System for storing and playing a multimedia application adding variety of services specific thereto

US Patent No. (1):  
6035304Detailed Description Text (68):  
FRESHNESS 280 comprising:Detailed Description Text (93):

col 12  
60-65  
In FIG. 16, the time limit (effective time and date) 220, reliability information 260, creator information 240, provider information 160 and freshness information 280 are displayed in respective area 412 stacked in a column on the right of a service display area 411 in the screen 420.

Detailed Description Text (104):

col 14  
138-43  
If a packet from the SAI decoder 56 contains EPG data 36, then the program 85 adds the EPG data 36 to the above mentioned EPG data file 45. If a packet from the SAI decoder 56 contains SID (service information descriptor) 38, then the program 85 adds the SID 38 to the SAI table 46. The program 85 calculates the correlation between the key words in the KEY WORD field 170 and the data in the TASTE FACTOR 525 of the user data table 520 of FIG. 23 and enters the correlation in the correlation attribute 270. The program 85 further calculates freshness from the updated time and date in the VERSION attribute 130 or the next broadcast time and date in the REBROADCAST attribute 290 and enters the calculated freshness in the FRESHNESS attribute 280. Thus, the registration of received SAI is completed. Link data control in application recording

Detailed Description Text (156):

col 12  
112-13  
An example of a display by VIEWER is shown in FIG. 60. In FIG. 60, the display includes titles (or IDs) 802 of SAIs associated with the SAI (AID.sub.a-i and corresponding logotypes 803. If the same titles is to be displayed, then respective creators and/or providers may be displayed together. Also, the method VIEWER may display the freshness or brand information concerning the title.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINC	Draw Desc	Image
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US006035304A

**United States Patent** [19]

Machida et al.

[11] **Patent Number:** 6,035,304[45] **Date of Patent:** Mar. 7, 2000

[54] **SYSTEM FOR STORING AND PLAYING A MULTIMEDIA APPLICATION ADDING VARIETY OF SERVICES SPECIFIC THERETO**

[75] **Inventors:** Kazuhiro Machida, Inzai; Takenosuke Harada, Yokohama; Shigeki Kaneko, Funabashi; Ryota Tsukidate, Tokyo; Yoshlyasu Takeuchi, Tokyo; Kenichi Fujita, Tokyo, all of Japan

[73] **Assignee:** Matsushita Electric Industrial Co., Ltd., Osaka, Japan

[21] **Appl. No.:** 08/881,235

[22] **Filed:** Jun. 24, 1997

[30] **Foreign Application Priority Data**

Jun. 25, 1996 [JP] Japan ..... 8-164992  
Jun. 28, 1996 [JP] Japan ..... 8-169976

[51] **Int. Cl.<sup>7</sup>** ..... G06F 17/30

[52] **U.S. Cl.** ..... 707/104; 707/103; 348/6; 455/6.1

[58] **Field of Search** ..... 707/1, 103, 104, 707/200; 395/682; 348/7, 12, 13, 6; 455/4.2, 5.1, 6.1

[56] **References Cited**

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[57] **ABSTRACT**

A system capable of storing the application packages and thereafter reproducing a desired one of the stored application packages at any time. The application package comprises a plurality of applications. Each of the applications comprises application data which comprises forms a main body of the application and service adding information (SAI) comprising various data including an application ID of the application. The SAIs are distributed independently from and prior to the application data. Each of the SAIs can include method IDs of methods for processing object data specified by a method processing program and a plurality of link data comprising application IDs of other applications. This permits the SAIs to form a tree structure of the applications. The methods are activated in a event driven manner.

41 Claims, 48 Drawing Sheets

